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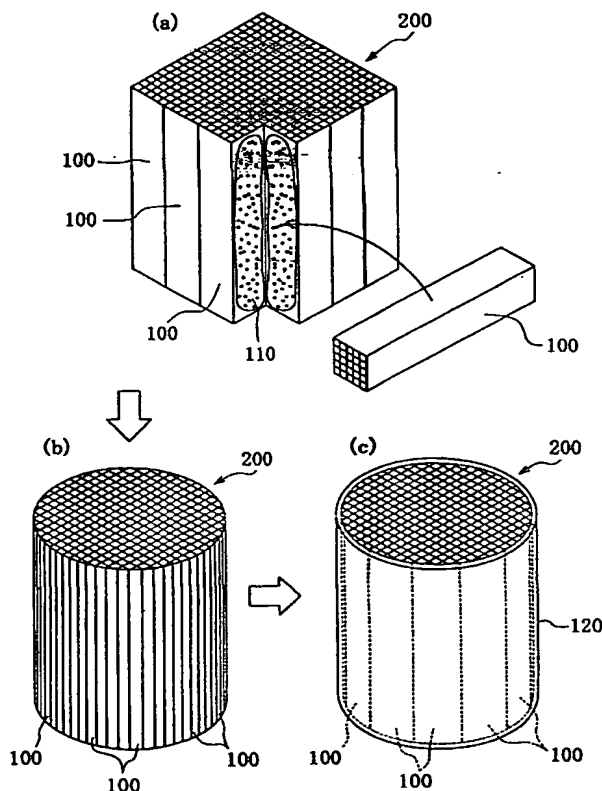
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- (51) 国際特許分類⁷: B01D 39/20, 46/00, F01N 3/02 (72) 発明者; および
(21) 国際出願番号: PCT/JP03/03601 (75) 発明者/出願人 (米国についてのみ): 大野 一茂
(22) 国際出願日: 2003 年 3 月 25 日 (25.03.2003) (OHNO, Kazushige) [JP/JP]; 〒501-0601 岐阜県 揖斐郡
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特願2002-084377 2002 年 3 月 25 日 (25.03.2002) JP (74) 代理人: 小川 順三, 外(OGAWA, Junzo et al.); 〒104-
特願2002-084378 2002 年 3 月 25 日 (25.03.2002) JP 0061 東京都 中央区 銀座 2 丁目 8 番 9 号 木挽館銀座
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[続葉有]

(54) Title: FILTER FOR EXHAUST GAS DECONTAMINATION

(54) 発明の名称: 排ガス浄化用フィルタ



(57) Abstract: A filter for exhaust gas decontamination exhibiting high thermal conductivity despite having relatively high porosity, or, while holding the thermal conductivity of the whole body of filter low, containing a high refractive index substance or pigment so as to allow the whole body of filter to exhibit the property of being warmed soon and cooled late. This filter comprises a support of porous ceramic and, superimposed on a surface thereof, a catalyst coat layer carrying an active component of catalyst, wherein the support of porous ceramic is either one having a porosity of 40 to 80% and exhibiting a thermal conductivity as filter of 3 to 60 W/mk, or one exhibiting a thermal conductivity of 0.3 to 3 W/mk and containing a high refractive index substance or pigment.

(57) 要約: 気孔率が比較的高いにもかかわらず高い熱伝導性を有するもの、またはフィルタ全体としての熱伝導性を低くしたままで、高屈折率物質もしくは顔料を含むものとしてフィルタ全体が温まりやすく冷めにくい特性を示す排ガス浄化用フィルタを提供することを目的とする。このフィルタは、多孔質セラミック担体の表面に触媒活性成分を担持してなる触媒コート層を設けてなり、多孔質セラミック担体の気孔率が40~80%であり、かつフィルタとしての熱伝導率が3~60W/mkの特性を示すものか、熱伝導率は0.3~3W/mkで屈折率の大きい物質または顔料を含有するものである。

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INTERNATIONAL SEARCH REPORT

International application No.
JP03/03601

A. CLASSIFICATION OF SUBJECT MATTER
Int.Cl⁷ B01D39/20, B01D46/00, F01N3/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
Int.Cl⁷ B01D39/20, B01D46/00, F01N3/02

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1926-1996	Toroku Jitsuyo Shinan Koho	1994-2003
Kokai Jitsuyo Shinan Koho	1971-2003	Jitsuyo Shinan Toroku Koho	1996-2003

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
WPI

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, X	JP 2002-201082 A (NGK Insulators, Ltd.), 16 July, 2002 (16.07.02), Claims; page 4, Par. No. [0020] to page 6, Par. No. [0050] (Family: none)	1-6, 13-15
A	JP 3-258316 A (Toyota Motor Corp.), 18 November, 1991 (18.11.91), Claims; page 2, lower right column, line 7 to page 3, upper right column, line 6 (Family: none)	1-15
E, A	JP 2003-155908 A (NGK Insulators, Ltd.), 30 May, 2003 (30.05.03), Claims; page 8, Par. No. [0052] to page 10, Par. No. [0062] (Family: none)	1-15

☐ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

<p>* Special categories of cited documents:</p> <p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier document but published on or after the international filing date</p> <p>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p>	<p>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</p> <p>"&" document member of the same patent family</p>
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17 June, 2003 (17.06.03)

Date of mailing of the international search report
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Name and mailing address of the ISA/
Japanese Patent Office

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